REMARKS

Claims 32-34 have been added. Claims 1-14 and 25-34 remain in the application. Reconsideration of the application in view of the amendments and the remarks to follow is requested.

The Office Action states (p. 1, "Disposition of Claims") that claims 1-14, 25-31 and 40 are pending in the present application. Applicants are unaware of a claim 40 ever having been in the application, and believe that claims 1-14 and 25-31 are pending in the present application.

Claims 1, 2, 7 and 9 stand rejected under 35 U.S.C. §102(a) as being anticipated by Araki et al., U.S. Patent No. 5,882,994. Applicants assume that what was intended was to reject these claims under 35 U.S.C. §102(e) because Araki et al. is not available as prior art under 35 U.S.C. §102(a). Claims 3-6, 8, 10-14 and 25-31 stand rejected under 35 U.S.C. §103(a) as being unpatentable over Araki et al.

The §102 rejection of claims 1, 2, 7 and 9 is believed to be in error. Specifically, the PTO and Federal Circuit provide that §102 anticipation requires that <u>each and every element</u> of the claimed invention be disclosed in a single prior art reference. *In re Spada*, 911 F.2d 705, 15 USPQ2d 1655 (Fed. Cir. 1990). The corollary of this rule is that the absence from a cited §102 reference of <u>any</u> claimed element negates the anticipation. *Kloster Speedsteel AB*, et al. v. Crucible, Inc., et al., 793 F.2d 1565, 230 USPQ 81 (Fed. Cir. 1986).

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No §103 rejection has been lodged regarding claims 1, 2, 7 and 9. Accordingly, if Applicants can demonstrate that the Araki et al. reference does not disclose any one claimed element with respect to claims 1, 2, 7 and 9, the §102 rejections must be withdrawn, and a subsequent non-final action made with a different rejection in the event that the Examiner still finds such claims to be not allowable.

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Claim 1 recites "forming a floating gate over a substrate, the floating gate having an inner first portion and an outer second portion; and providing conductivity enhancing impurity in the inner first portion to a greater concentration than conductivity enhancing impurity in the outer second portion", which is not taught or disclosed by Araki et al. Similarly, claim 9 recites "forming a first layer of conductively doped semiconductive material over a semiconductive substrate; forming a second layer of substantially undoped semiconductive material over the first layer", which is not taught or disclosed by Araki et al.

Araki et al. teach (col. 3, lines 23-25 and 31-36), formation of a floating gate comprising three layers, "such non-doped as polysilicon/impurity doped polysilicon/non-doped polysilicon." Araki et al. teach (col. 1, lines 56-64) that it is undesirable to form a first layer of a floating gate from doped polysilicon, because then "phosphorus within floating gate 84 is diffused into the cell gate oxide film" and because "it invokes a problem concerning reliability due to an increase in the leak current."

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Claim 25 recites "forming a first layer of polysilicon over a substrate to a first thickness; doping the first layer to a degree sufficient to define a sheet resistance of between 300 ohm/sq. and 400 ohm/sq.; after the doping, forming a second layer of polysilicon over the first layer of polysilicon to a second thickness", which is not taught, disclosed, suggested or motivated by Araki et al.

Araki et al. teach that it is undesirable to form a first doped polysilicon layer in forming a floating gate transistor, for reasons noted above. It is a main intent of Araki et al. to provide a first layer that is undoped, and this is done for the intended purpose of separating the doped layer from the gate oxide. Applicants note that MPEP §2143.01 indicates that "THE PROPOSED MODIFICATION CANNOT RENDER ART UNSATISFACTORY FOR ITS INTENDED PURPOSE", and that if the modification does render the prior art unsatisfactory for its intended purpose, there is no suggestion or motivation to make the proposed modification. In re Gordon, 733 F.2d 900, 221 USPQ 1125 (Fed. Cir. 1984). Accordingly, the rejection of claim 25 should be withdrawn, and claim 25 should be allowed.

Dependent claims 2-8, 10-14 and 26-31 are allowable as depending from an allowable base claims and for their own recited features which are neither shown nor suggested by the prior art.

New claims 32-34 are allowable over the art of record. New claims 32-34 are supported by text appearing at p. 4, line 5 through

p. 9, line 5 of the application as filed. No new matter is added by new claims 32-34.

In view of the foregoing, allowance of claims 1-14 and 25-34 is requested. The Examiner is requested to phone the undersigned in the event that the next Office Action is one other that a Notice of Allowance. The undersigned is available for telephone consultation at any time during normal business hours (Pacific Time Zone).

Respectfully submitted,

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